Atty. Dkt. No. 02CR145/KE (047141-0292)

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1.   (Previously Presented) A method of communicating a data packet comprised of a plurality of data cells, the method using a transmit queue and a retransmit queue, each of the transmit queue and the retransmit queue having a head and a tail, the method comprising:

transmitting a first data cell from the head of the transmit queue;

inserting the first data cell at the tail of the retransmit queue if the first data cell is for retransmission;

removing a second data cell at the head of the retransmit queue if receipt has been acknowledged for the second data cell; and

retransmitting the second data cell at the head of the retransmit queue if a time to retransmit elapses, wherein the second data cell is provided to the tail of the retransmit queue if retransmitted.

2.   (Previously Presented) The method of claim 1, further comprising:

marking the first data cell as requiring a hop-by-hop receive acknowledgement.

3.   (Original) The method of claim 1, further comprising:

determining if the second data cell has timed out.

4.   (Original) The method of claim 1, further comprising:

determining if the second data cell has exceeded its predetermined number of retransmissions.

-2-   Application No. 10/629,287

MILW_5139359.1

PAGE 3/13 * RCVD AT 6/4/2008 12:58:17 PM [Eastern Daylight Time] * SVR:USPTO-EFXRF-5/33 * DNIS:2738300 * CSID:319 295 3599 * DURATION (mm-ss):03-58

Atty. Dkt. No. 02CR145/KE (047141-0292)

5.   (Previously Presented) The method of claim 1, further comprising:

removing the second data cell at the head of the retransmit queue in response to a No-Ack-Info for the second data cell.

6.   (Previously Presented). The method of claim 1, further comprising:

removing the second data cell at the head of the retransmit queue if it has exceeded its predetermined number of retransmissions or it has timed out.

7.   (Currently Amended) The method of claim 1, ÷wherein the method is performed in an ad hoc military radio network .

8.   (Previously Presented) In communications system having a transmission reliability subsystem, the reliability subsystem comprising:

a transmit queue having a head and a tail;

a retransmit queue having a head and a tail;

a means for transmitting a first data cell from the head of the transmit queue;

a means for inserting the first data cell at the tail of the retransmit queue in response to a HBH ACK signal; and

a means for removing a second data cell at the head of the retransmit queue if receipt is acknowledged and for retransmitting the second data cell at the head of the retransmit queue if a time to retransmit occurs, wherein the second data cell is provided to the tail of the retransmit queue after retransmitting.

9.   (Previously Presented) The subsystem of claim 8, further comprising:

a means for marking the first data cell as requiring receive acknowledgement.

10.   (Previously Presented) The subsystem of claim 8, further comprising:

a means for determining if the second data cell has timed out.

-3-   Application No. 10/629,287

11.   (Previously Presented) The subsystem of claim 8, further comprising:

a means for determining if the second data cell has exceeded its predetermined number of retransmissions.

12.   (Previously Presented) The subsystem of claim 8, further comprising:

a means for reinserting the second data cell at the tail of the retransmit queue.

13.   (Previously Presented) The subsystem of claim 8, further comprising:

a means for discarding the second data cell because it has exceeded its predetermined number of retransmissions or it has timed out.

14.   (Previously Presented) The communications system of claim 8, wherein the system is part of an ad hoc radio network.

15.   (Previously Presented) A communications system, comprising:

a plurality of transceiver nodes configured to utilize a time division multiple access structure to communicate between the transceiver nodes; and

the time division multiple access structure including a plurality of time slots, wherein the transceiver nodes are configured to communicate data cells during the time slots, the data cells being transmitted from a transmission queue and a retransmission queue,

wherein cells transmitted from the transmission queue are selectively placed sequentially into the retransmission queue for later retransmission in response to the need for a retransmission, wherein the retransmission queue includes a head and a tail, wherein a first data cell is removed from the head of the retransmission queue if receipt is acknowledged and the first data cell is retransmitted if a time to retransmit elapses, wherein the first data cell is provided to the tail of the retransmit queue if retransmitted.

16.   (Previously Presented) The communications system of claim 15, wherein a first data cell is copied before being transmitted from the transmission queue and is placed in the tail of the retransmission queue if the first data cell has been marked for receive acknowledgement.

-4-   Application No. 10/629,287

Atty. Dkt. No. 02CR145/KE (047141-0292)

17.   (Previously Presented) The communications system of claim 15, wherein the first data cell at the head of the retransmission queue is discarded if timed out.

18.   (Previously Presented) The communications system of claim 15, wherein the first data cell at the head of the retransmission queue is removed if the predetermined number of retransmissions has been received.

19.   (Previously Presented) The communications system of claim 15, wherein the first cell at the head of the retransmission queue is copied, retransmitted and placed at the tail of the retransmission queue.

20.   (Previously Presented) The communications system of claim 15, wherein the plurality of cells form a packet.

Application No. 10/629,287

MILW_5139359.1